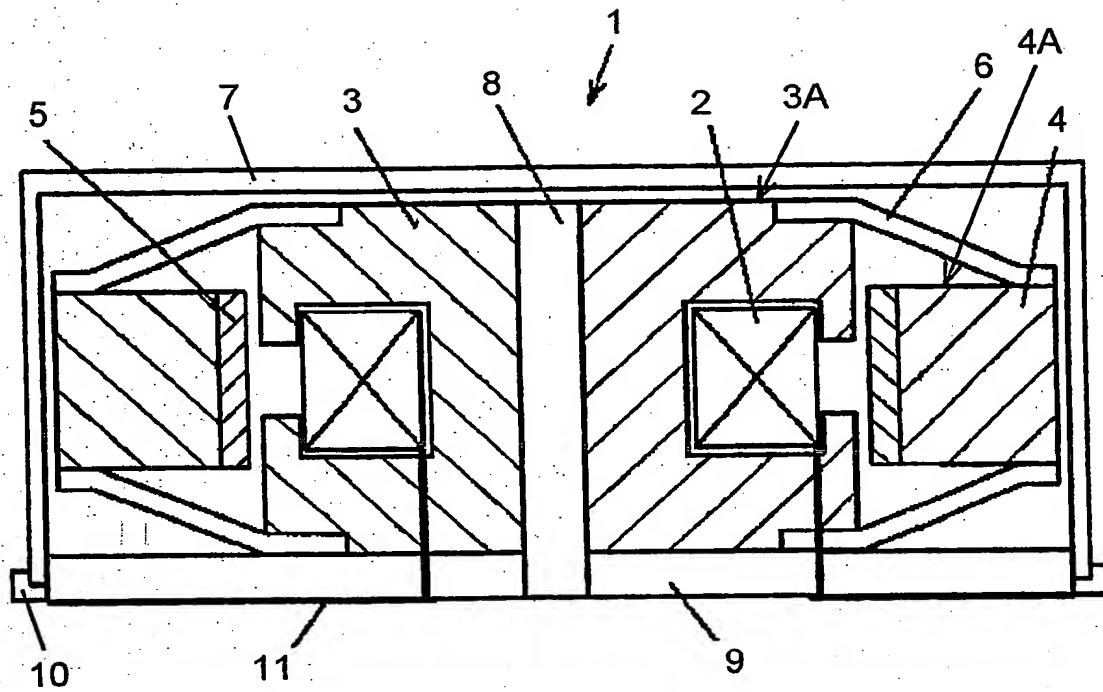


FIG. 1



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FIG. 2

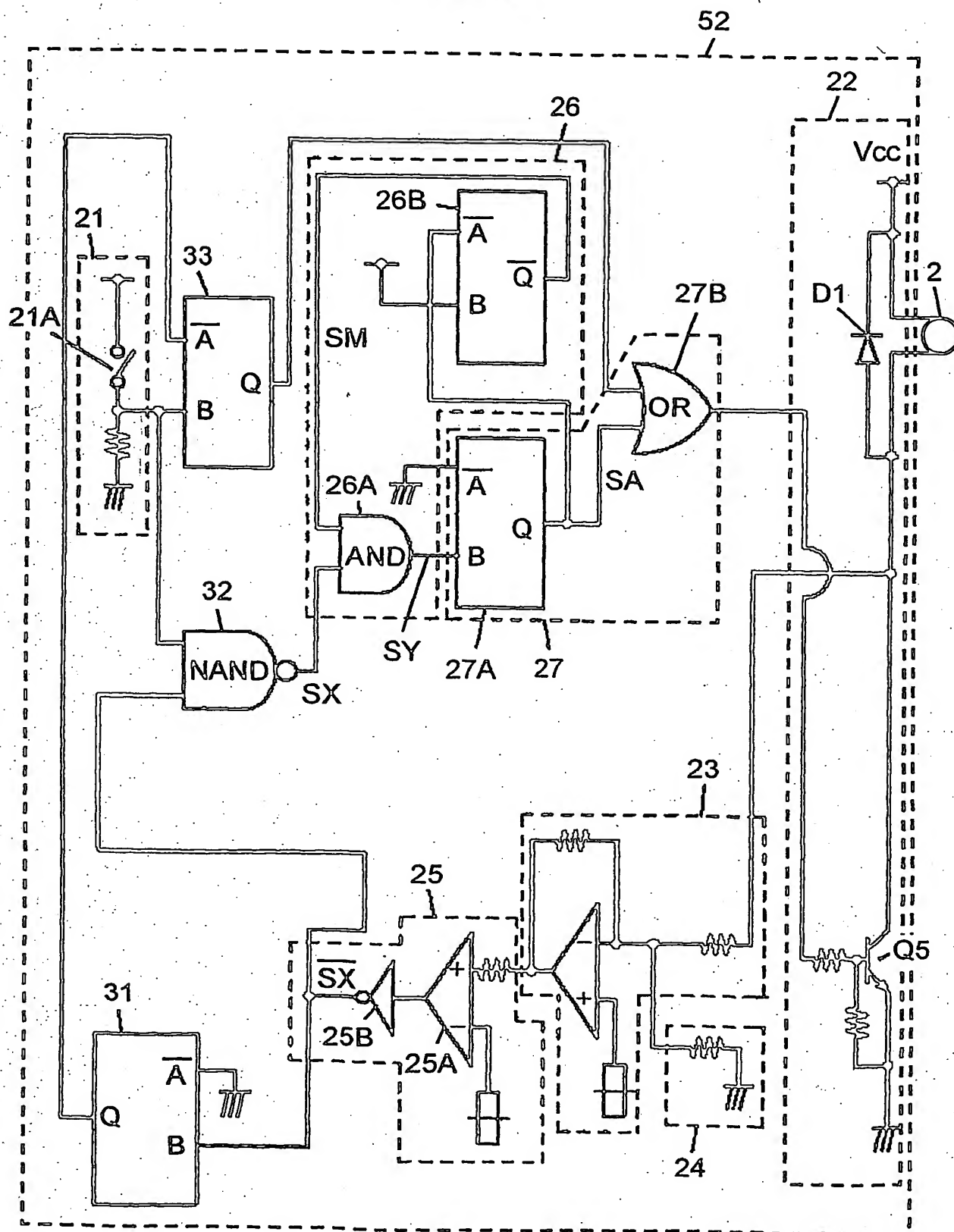
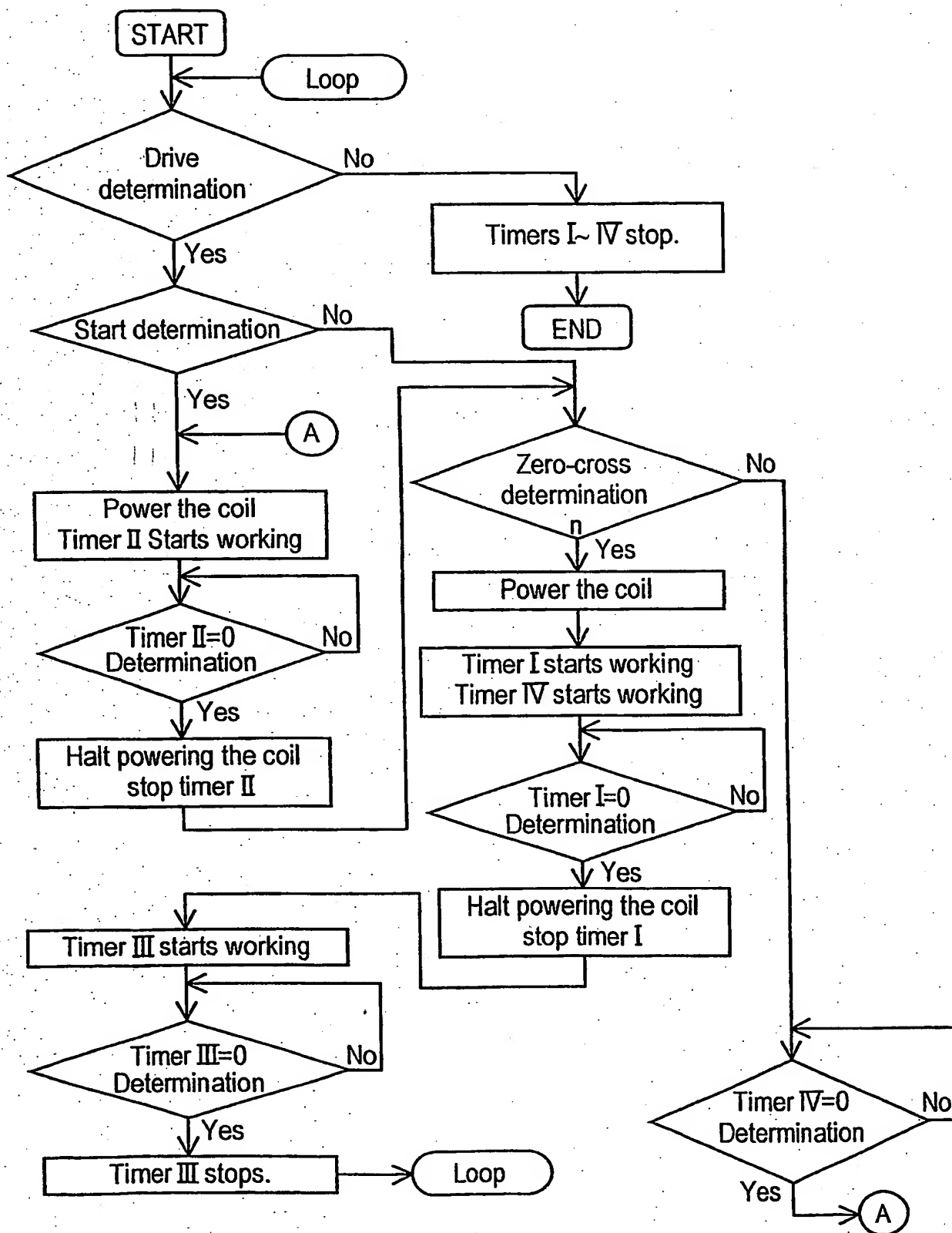


FIG. 7



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FIG. 8

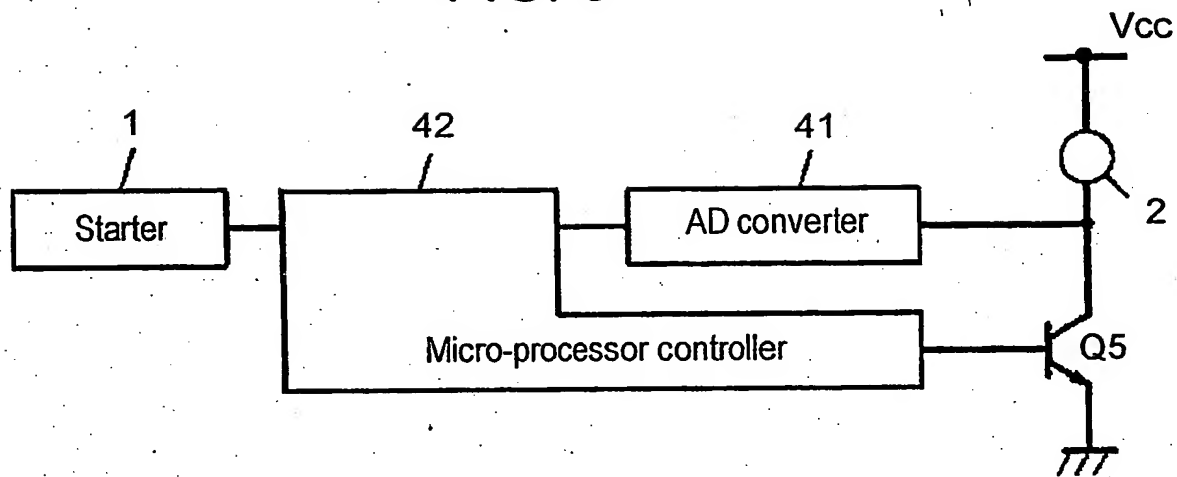
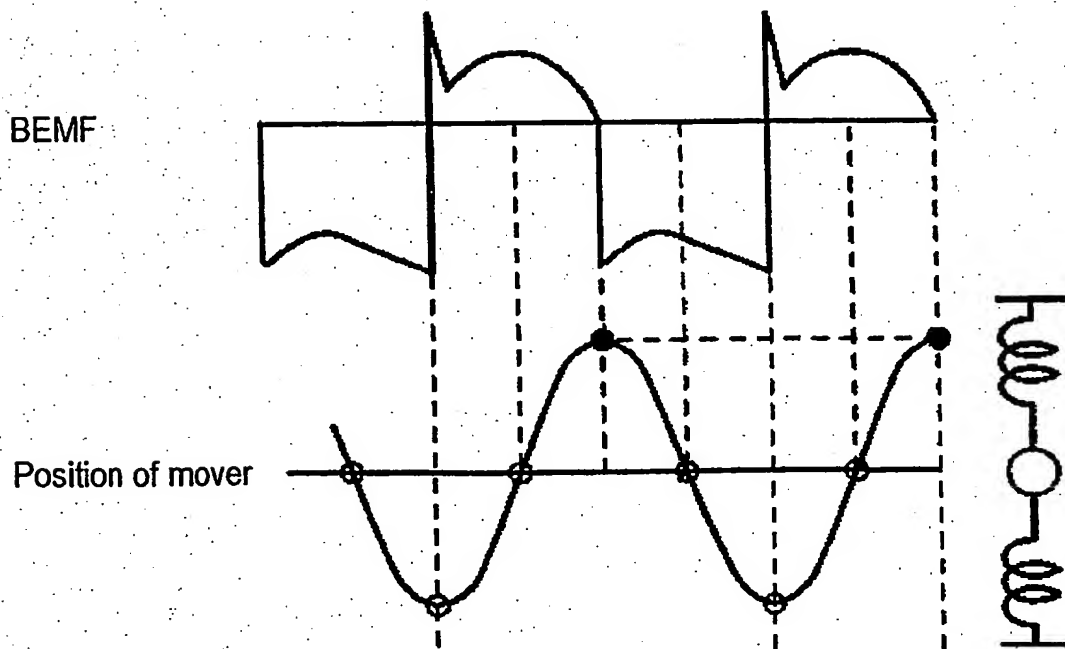


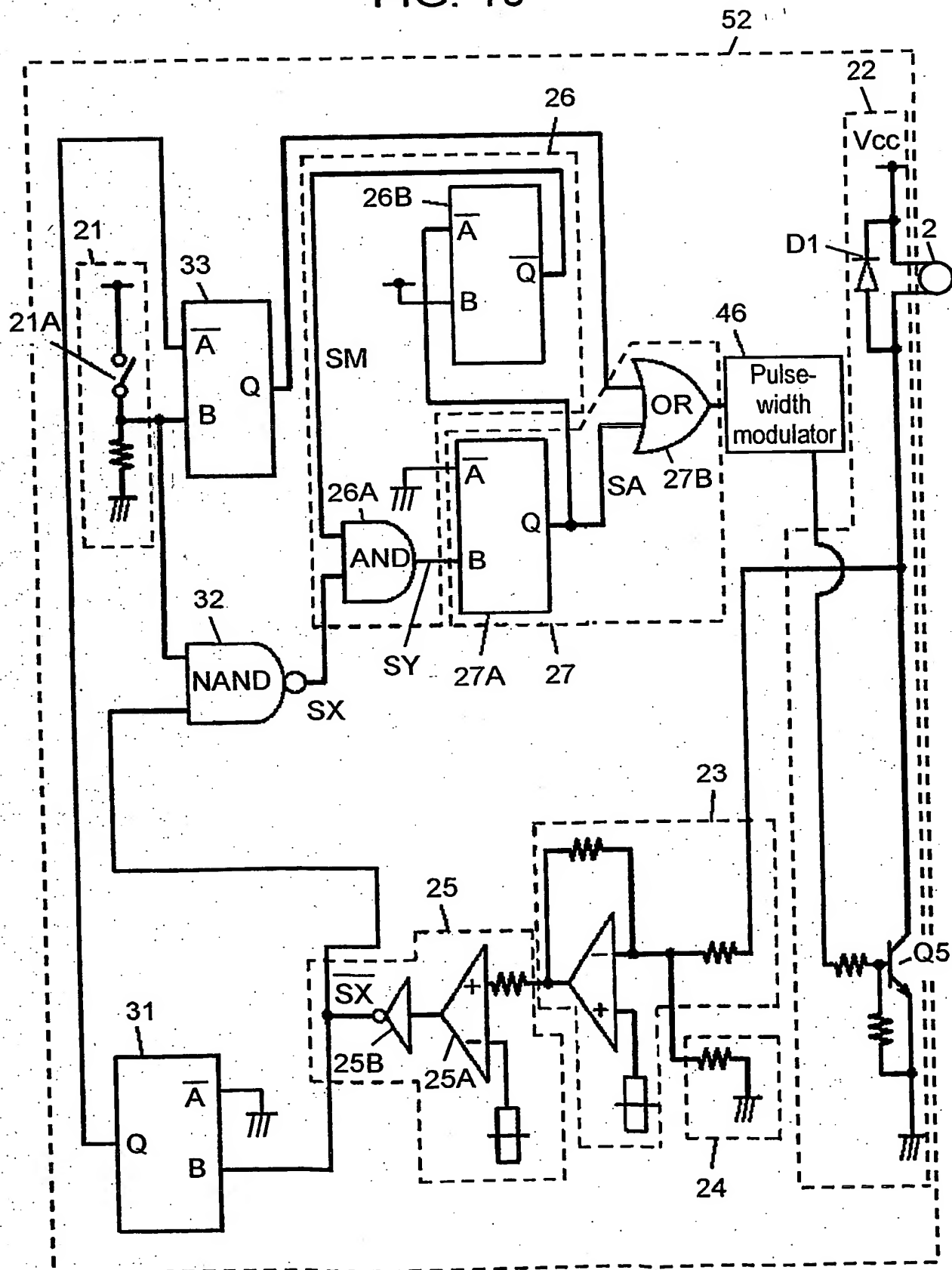
FIG. 9



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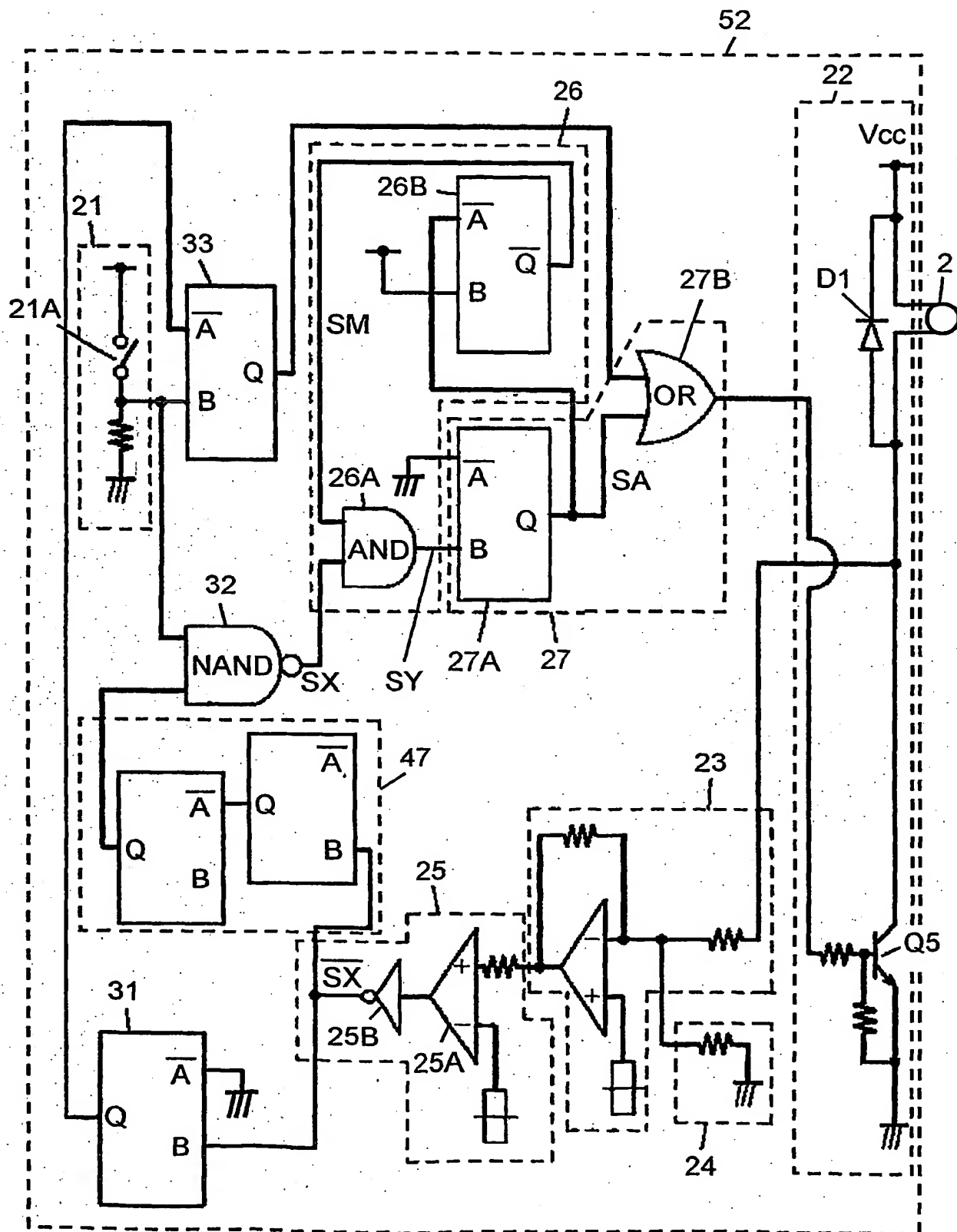
FIG. 10



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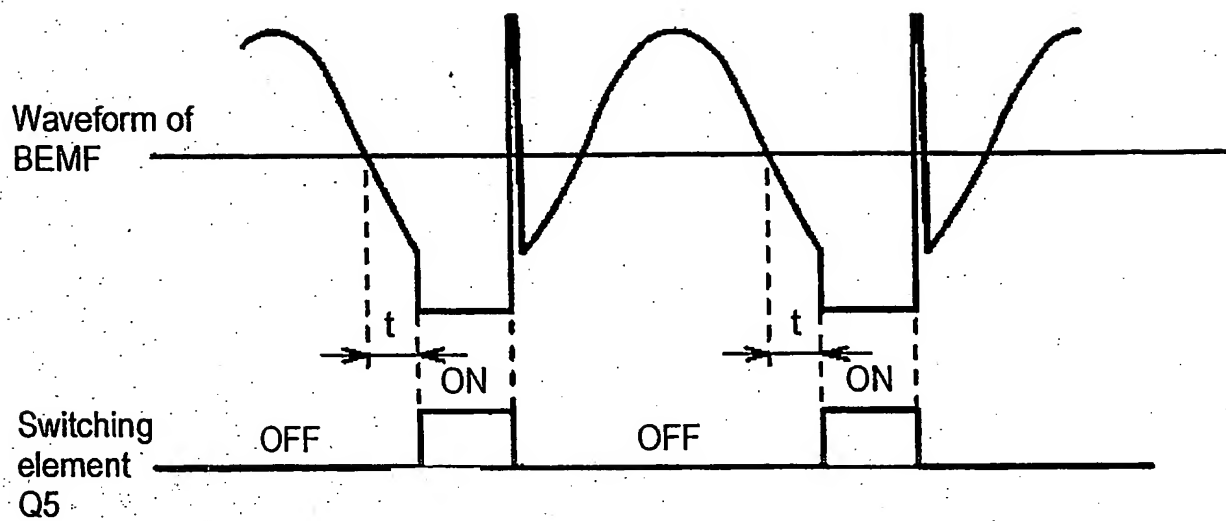
FIG. 11



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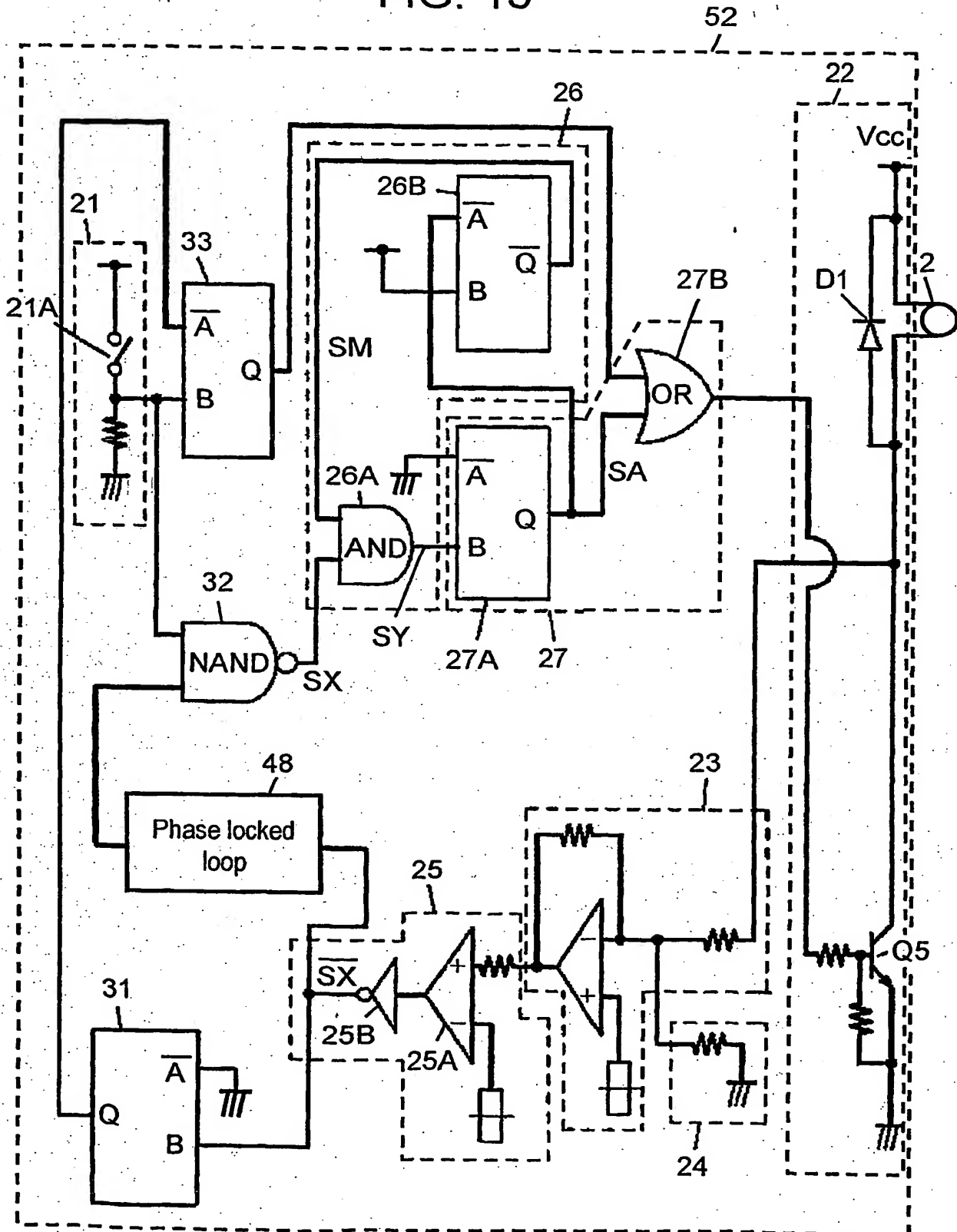
FIG. 12



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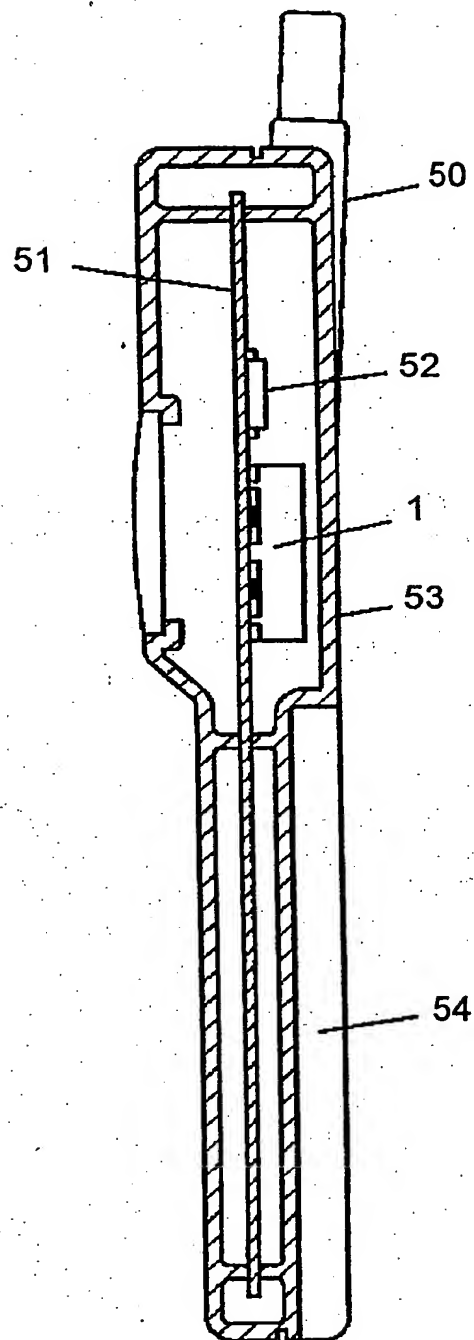
FIG. 13



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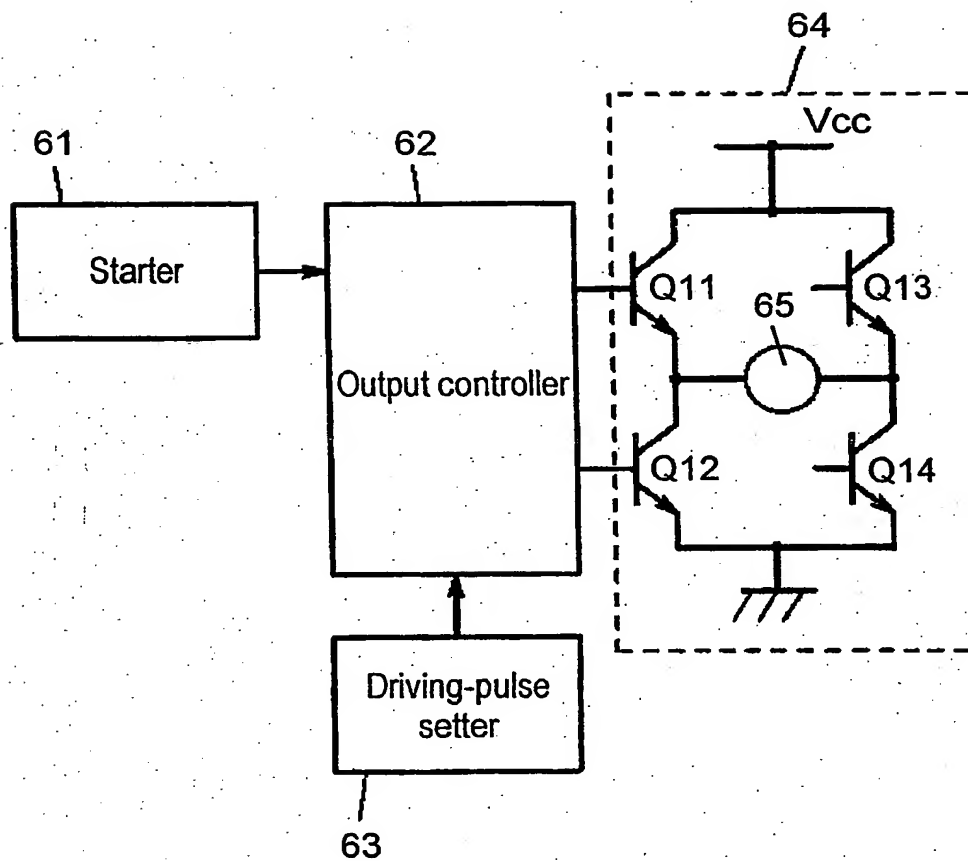
FIG. 14



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FIG. 15



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Reference numerals in the drawings

- 1 Vibrating linear actuator
- 2 Coil
- 3A Stator
- 4A Mover
- 5 Permanent magnet
- 6 Elastic body
- 22 Driving section
- 25 Zero-cross detector
- 26 Zero-cross monitor
- 27 Output controller

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